# 1934221-1 ✔ ACTIVE

Z-PACK | Z-PACK TinMan

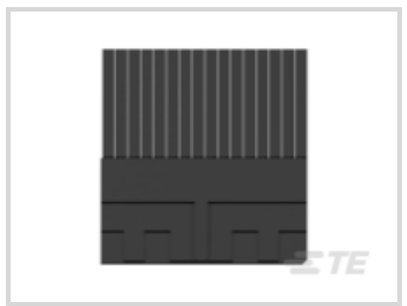
TE Internal #: 1934221-1

240 Position, Mating Alignment, Guide Slot Mating Alignment Type, 15 Row, 16 Column, Z-PACK TinMan, High Speed Backplane Connectors

View on TE.com >

Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors





Number of Positions: **240**

Row-to-Row Spacing: **1.4 mm [ .055 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Number of Rows: **15**

## Features

### Product Type Features

| | |
|---|---|
| Signal Arrangement | Differential |
| Connector System | Board-to-Board |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type | PCB Mount Receptacle |
| Shroud Style | Unshrouded |

### Configuration Features

| | |
|---|---|
| Pairs per Column | 5 |
| Number of Pairs | 80 |
| Stackable | No |
| Number of Signal Positions | 160 |
| Backplane Architecture | Traditional Backplane |
| Number of Positions | 240 |
| Number of Rows | 15 |
| Number of Columns | 16 |

| | |
|---|---|
| PCB Mount Orientation | Right Angle |

## Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 250 VAC |

## Signal Characteristics

| | |
|---|---|
| Differential Impedance | 100 Ω |
| Number of Differential Pairs per Column | 5 |
| Data Rate | 10 Gb/s |

## Body Features

| | |
|---|---|
| Shield Material | Phosphor Bronze |
| Primary Product Color | Black |

## Contact Features

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | .5 µm[20 µin] |
| Contact Type | Receptacle |
| Contact Mating Area Plating Material | Gold |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Shape & Form | Dual Beam |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Phosphor Bronze |
| Contact Current Rating (Max) | .5 A |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 2.2 mm[.087 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

| | |
|---|---|
| Guide Hardware | Without |
| Mating Retention | Without |
| PCB Mount Alignment | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Action/Compliant Tail |
| Mating Alignment | With |
| Mating Alignment Type | Guide Slot |
| Connector Mounting Type | Board Mount |

## Housing Features

| | |
|---|---|
| Number of Shrouded Sides | 0 |
| End Wall Location | None |
| Housing Material | LCP (Liquid Crystal Polymer) |
| Centerline (Pitch) | 1.9 mm[.075 in] |

### Dimensions

| | |
|---|---|
| Connector Length | 30.55 mm |
| Connector Height | 24.4 mm |
| Connector Width | 31.81 mm |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
| PCB Hole Diameter | .47 mm |
| Row-to-Row Spacing | 1.4 mm[.055 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -65 – 90 °C[-85 – 194 °F] |

### Operation/Application

| | |
|---|---|
| Circuit Application | Signal |

### Industry Standards

| | |
|---|---|
| Compatible With Agency/Standards Products | UL |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

### Packaging Features

| | |
|---|---|
| Packaging Method | Box & Tube, Tube |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

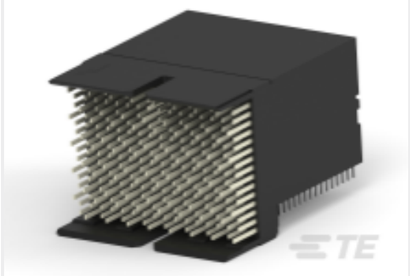
| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC |

| | |
|---|---|
| | Free |
| Solder Process Capability | Not applicable for solder process capability |

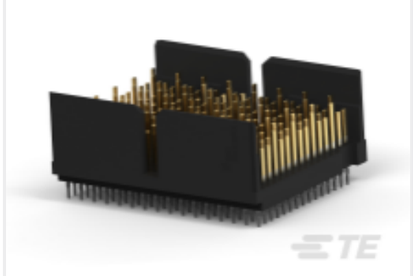
Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

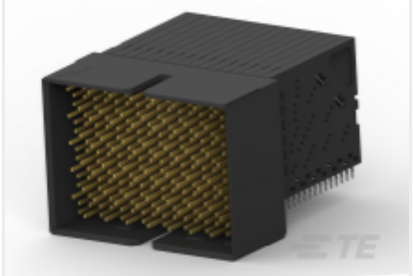
## Compatible Parts



TE Part # 1934347-1
TinMan R/A Header Assy 5x16 Open



TE Part # 1934331-1
Tin man Header Assy 5x16 Open



TE Part # 1934348-1
TinMan R/A Header Assy 5x16 Do

TE Part # 1934332-1
Tin man Header Assy5x16 Double

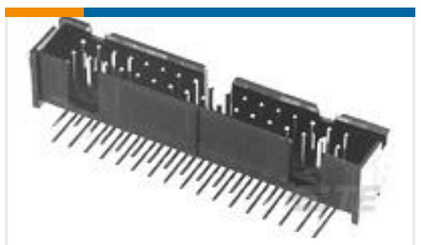
TE Part # 1934333-1
Tin Man Header Assy 5X16 left

TE Part # 1934334-1
Tin man Header Assy 5x16 Right

## Also in the Series | Z-PACK TinMan

High Speed Backplane Connectors(65)

## Customers Also Bought

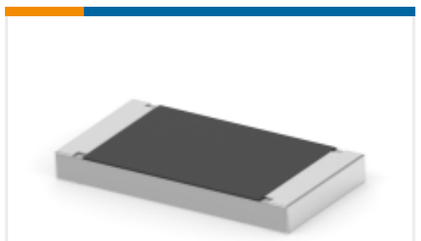


TE Part #5103311-7
A/L LOW PRO HDR 34P RA BLACK

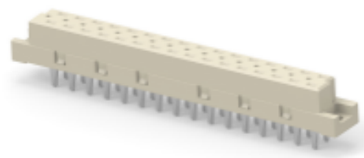
TE Part #5-5223961-1
TE UPM R/A Header 3P HC Power, LLL

TE Part #826947-5
5P MOD2 STIFT LEI


TE Part #9-1879501-7
CRGH2512 5% 10K 2W



TE Part #4-2176348-0
CRGCQ 2010 3M3 5%



TE Part #354442-E
STVD 32 F AC GG 7-01 EE 6,0 * 107 E 172

TE Part #L9000023-01
Antenna 1/2 Wave Whip 2.4GHz RPS

TE Part #2132186-1
EMI Gasket, QSFP/XFP 1x1

## Documents

### Product Drawings

Tin Man Recept Assy 5 Pair 16 Column

English

### CAD Files

Customer View Model

ENG_CVM_CVM_1934221-1_B.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1934221-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1934221-1_B.3d_stp.zip

English



### Datasheets & Catalog Pages

High Speed Backplane Connectors catalog - Z-PACK TinMan High Speed, High Density Backplane Connector

English

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards Datasheet 3-1773445-8

English

Z-PACK TinMan High Speed High Density Backplane Connector Catalog 5-1773447-9

English

### Product Specifications

## Application Specification

English